

SEQ.I.D.NO:1

NYGVH

SEQ.I.D.NO:2

VIWRGGSTDYNAAFMS

SEQ.I.D.NO:3

SPNSNFYWFYFDV

SEQ.I.D.NO:4

SGSSSVSYMY

SEQ.I.D.NO:5

DTSNLAS

SEQ.I.D.NO:6

QQWSSYPPT

SEQ.I.D.NO:7

QVQLKQSGPGLVQPSSLSITCTVSGFSLTNYGVHWVRQSPGKGLEWLGVIWRGG
STDYNAAFMSRLSITKDNSRSQVFFKMNSLQADDTAIYYCAKSPNSNFYWFYFDVW
GTGTTVTVSS

SEQ.I.D.NO:8

QIVLTQSPTIMSASPGEKVTMTCSGSSSVSYMYWYQEKPGSSPRLLIEDTSNLAS
GVPARFSGSGGTSYSLTISRMEAEDAATYYCQQWSSYPPTFGSGTKLEIK

SEQ.I.D.NO:9

QVQLVESGGGVVQPGRSLRLSCAASGFSLTNYGVHWVRQAPGKGLEWVAVIWRGG
 STDYNAAFMSRFTISKDNSKNTLYLQMNSLRAEDTAVYYCAKSPNSNFYWF'DVW
 GRGTLVTVSS

SEQ.I.D.NO:10

EIVLTQSPATLSLSPGERATLSCSGSSSVSYMYWYQQKPGQAPRLIEDTSNLA
 SIPARFSGSGSGTDYTLTISNLEPEDFAVYYCQQWSSYPPTFGQGTKLEIK

SEQ.I.D.NO:11

QVQLVESGGGVVQPGRSLRLSCAASGFSLTNYGVHWVRQAPGKGLEWVAVIWRGG
 STDYNAAFMSRFTISKDNSKNTLYLQMNSLRAEDTAVYYCAKSPNSNFYWF'DVW
 GRGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGA
 LTSGVHTFPAVLQSSGLYSLSSVTVTPSSSLGTQTYICNVNHKPSNTKVDKKVEP
 KSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPE
 VKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKA
 LPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE
 SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYT
 QKSLSLSPGK

SEQ.I.D.NO:12

EIVLTQSPATLSLSPGERATLSCSGSSSVSYMYWYQQKPGQAPRLIEDTSNLA
 SIPARFSGSGSGTDYTLTISNLEPEDFAVYYCQQWSSYPPTFGQGTKLEIKRTVA
 APSVFIFPPSDEQLKSGTASVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQ
 DSKDSTYLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

SEQ.I.D.NO:15

CAGGTGCAACTGAAGCAGTCAGGACCTGGCCTAGTGCAGCCCTCACAGAGCCTGT
CCATAACCTGCACAGTCTCTGGTTTCTCATTAACCTAATTATGGTGTACACTGGGT
TCGCCAGTCTCCAGGAAAGGGTCTGGAGTGGCTGGGAGTGATATGGAGAGGTGGA
AGCACAGACTACAATGCAGCTTTCATGTCCAGACTGAGCATCACCAAGGACAACCT
CCAGGAGCCAAGTTTTCTTTAAAATGAACAGTCTACAAGCTGATGACACTGCCAT
ATACTACTGTGCCAAAAGTCCGAATAGTAACTTTTACTGGTATTTTCGATGTCTGG
GGCACAGGGACCACGGTCACCGTCTCCTCA

SEQ.I.D.NO:16

CAAATTGTTCTCACCCAGTCTCCAACAATCATGTCTGCATCTCCAGGGGAGAAGG
TCACCATGACCTGCAGTGGCAGCTCAAGTGTAAGTTACATGTATTGGTACCAGGA
GAAGCCAGGATCCTCCCCAGACTCCTGATTGAAGACACATCCAACCTGGCTTCT
GGAGTCCCTGCTCGCTTCAGTGGCAGTGGGTCTGGGACCTCTTACTCTCTCAAA
TCAGCCGAATGGAGGCTGAAGATGCTGCCACTTATTACTGTCAACAGTGGAGTAG
TTATCCACCCACGTTTCGGCTCGGGGACAAAGTTGGAAATCAAA

SEQ.I.D.NO:17

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGA
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CCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGTGATATGGAGAGGTGGA
AGCACAGACTACAATGCAGCTTTCATGTCCCGATTACCATCTCCAAGGACAATT
CCAAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGT
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GGCCGTGGCACACTAGTCACAGTCTCCTCA

SEQ.I.D.NO:18

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GGCATCCAGCCAGGTTTCAGTGGCAGTGGGTCTGGGACAGACTACACTCTCACCA
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TTATCCACCCACGTTTGGCCAGGGGACCAAGCTGGAGATCAAA

SEQ.ID.NO:19

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CCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGTGATATGGAGAGGTGGA
AGCACAGACTACAATGCAGCTTTCATGTCCCGATTACCATCTCCAAGGACAATT
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GGCCGTGGCACACTAGTCACAGTCTCCTCAGCCTCCACCAAGGGCCCATCGGTCT
TCCCCCTGGCACCcTCctCCAAGAGCACCTCTGGGGGCACAGCGGCCCTGGGCTG
CCTGGTCAAGGACTACTTCCCCGAACCGGTGACGGTGTCTGTGGAACCTCAGGCGCC
CTGACCAGCGGCGTGCACACCTTCCCGGCTGTCTACAGTCCTCAGGACTCTACT
CCCTCAGCAGCGTGGTGACCGTGCCCTCAGCAGCTTGGGCACCCAGACCTACAT
CTGCAACGTGAATCACAAGCCCAGCAACACCAAGGTGGACAAGAAAGTTGAGCCC
AAATCTTGTGACAAAACCTCACACATGCCACCGTGCCCAGCACCTGAACTCCTGG
GGGGACCGTCAGTCTTCTCTTCCCCC AAAACCCAAGGACACCCTCATGATCTC
CCGGACCCCTGAGGTCACATGCGTGGTGGTGGACGTGAGCCACGAAGACCCTGAG
GTCAAGTTCAACTGGTACGTGGACGGCGTGGAGGTGCATAATGCCAAGACAAAGC
CGCGGGAGGAGCAGTACAACAGCACGTACCGTGTGGTCAGCGTCCTCACCGTCCT
GCACCAGGACTGGCTGAATGGCAAGGAGTACAAGTGCAAGGTCTCCAACAAAGCC
CTCCAGCCCCCAcCGAGAAAACCcTCTCCAAAGCCAAAGGGCAGCCCCGAGAAC
CACAGGTGTACACCCTGCCCCCATCCCGGGATGAGCTGACCAAGaACCAGGTGAG
CCTGACCTGCCTGGTCAAAGGCTTCTATCCCAGCGACATCGCCGTGGAGTGGGAG
AGCAATGGGCAGCCGGAGAACAACTACAAGACCACGCCTCCCGTGCTGGACTCCG
ACGGCTCCTTCTTCTCTACAGCAAGCTCACCGTGGACAAGAGCAGGTGGCAGCA
GGGGAACGTcTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACG
CAGAAGAGCCTCTCCCTGTCTCCGGGTAAA

SEQ.ID.NO:20

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GGCATCCCAGCCAGGTTTCAGTGGCAGTGGGTCTGGGACAGACTACACTCTCACCA
TCAGCAACCTAGAGCCTGAAGATTTTGCAGTTTATTACTGTCAACAGTGGAGTAG
TTATCCACCCACGTTTGGCCAGGGGACCAAGCTGGAGATCAAACGTACGGTGGCT
GCACCATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAACTG
CCTCTGTTGTGTGCCTGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACAGTG
GAAGGTGGACAACGCCCTCCAATCGGGTAACTCCCAGGAGAGTGTCACAGAGCAG
GACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCTGACGCTGAGCAAAGCAG
ACTACGAGAAACACAAAGTCTACGCCTGCGAAGTCACCCATCAGGGCCTGAGCTC
GCCCCGTCACAAAGAGCTTCAACAGGGGAGAGTGT

SEQ.I.D.NO:21

QVQLVESGGGVVQPGRSLRLSCAASGFSLTNYGVHWVRQAPGKGLEWVAVIWRG
GSTDYNAAFMSRLTISKDNSKNTLYLQMNSLRAEDTAVYYCAKSPNSNFYWFYFD
VWGRGTLVTVSS

SEQ.I.D.NO:40

DYNMD

SEQ.I.D.NO:41

DINPNNGGTIDNQKFKD

SEQ.I.D.NO:42

GIYYYGSHYFDY

SEQ.I.D.NO:43

SATSSVSVMH

SEQ.I.D.NO:44

DTSKLAS

SEQ.I.D.NO:45

QQWSSNPLT

SEQ.I.D.NO:46

EVQLQQSGPELVKPGASVKISCKASGYIFTDYNMDWVKQSHGKKLEWIGDINPNN
GGTIDNQKFQDKATLTVDKSSSTAYMELRSLTSEDVAVYYCARGIYYYGSHYFDY
WGQGTTTLTVSS

SEQ.I.D.NO:47

QIVLTQSPAIMASAPGEKVTMTCSATSSVSVMHWFQKKSGTSPKRWIYDTSKLAS
GVPTRFSGSGSGTSYSLTISSEAEEDTATYYCQQWSSNPLTFGSGTKLELK

SEQ.I.D.NO:48

EVQLVQSGAEVKKPGASVKVSCASGYIFTDYNMDWVRQAPGQKLEWIGDINPNN
GGTIDNQKFQDRATLTVDKSTSTVYMELSSLRSEDVAVYYCARGIYYYGSHYFDY
WGQGTLVTVSS

SEQ.I.D.NO:49

EIVLTQSPSSLSASVGDRVITITCSATSSVSVMHWFQKKPGKAPKRWIYDTSKLAS
GVPSRFSGSGSGTDYTLTISSLQPEDFATYYCQQWSSNPLTFGGGKVDIK

SEQ.I.D.NO:50

EVQLVQSGAEVKKPGASVKVSCASGYIFTDYNMDWVRQAPGQKLEWIGDINPNN
GGTIDNQKFQDRATLTVDKSTSTVYMELSSLRSEDVAVYYCARGIYYYGSHYFDY
WGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSG
ALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLGTQTYICNVNHKPSNTKVDKKVE
PKSCDKHTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDP
EVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
ALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEW
ESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQSVMEALHNHY
TQKSLSLSPGK

SEQ.I.D.NO:51

EIVLTQSPSSLSASVGDRVITITCSATSSVSVMHWFQKKPGKAPKRWIYDTSKLAS
GVPSRFSGSGSGTDYTLTISSLQPEDFATYYCQQWSSNPLTFGGGKVDIKRTVA
APSVFIFPPSDEQLKSGTASVVCCLNNFYPREAKVQWKVDNALQSGNSQESVTEQ
DSKDSTYLSLTSLTSLKADYEKHKVYACEVTHQGLSPVTKSFNRGEC

SEQ.I.D.NO:52

GAGGTCCAGCTGCAACAGTCTGGACCTGAGCTGGTGAAGCCTGGGGCTTCAGTGA
AGATATCCTGCAAGGCCTCTGGATACATATTCAGTACTACAACATGGACTGGGT
GAAGCAGAGCCATGGAAAGAACTTGAGTGGATTGGAGATATTAATCCTAATAAT
GGTGGTACTATCGACAACCAGAAGTTCAGGACAAGGCCACATTGACTGTAGACA
AGTCCTCCAGCACAGCCTACATGGAGCTCCGCAGCCTGACATCTGAGGACACTGC
AGTCTATTACTGTGCAAGAGGGATTTATTACTACGGTAGTCACTACTTTGACTAT
TGGGGCCAAGGCACCACTCTCACAGTCTCCTCA

SEQ.I.D.NO:53

CAAATTGTTCTCACCCAGTCTCCAGCAATCATGTCTGCATCTCCAGGGGAGAAGGTCAC
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GTACCTCCCCCAAAGATGGATTTATGACACATCCAACTGGCTTCTGGAGTCCCTACT
CGTTTCAGTGGCAGTGGGTCTGGGACCTCTTACTCTCTCACAATCAGTAGCATGGAGGC
TGAAGATACTGCCACTTATTACTGCCAGCAGTGGAGTAGTAACCACTCACGTTTCGGTT
CTGGGACCAAGCTGGAGCTGAAA

SEQ.I.D.NO:54

GAGGTCCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGGCCTCAGTGAAGGT
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CCCCTGGACAAAACTTGAGTGGATTGGAGATATTAATCCTAATAATGGTGGTACTATC
GACAACCAGAAGTTCAGGACAGAGCCACCTTGACCGTAGACAAGTCCACGAGCACAGT
CTACATGGAGCTGAGCAGCCTGAGATCTGAGGACACGGCCGTGTATTACTGTGCGAGAG
GGATTTATTACTACGGTAGTCACTACTTTGACTATTGGGGCCAGGGAACACTAGTCACA
GTCTCCTCA

SEQ.I.D.NO:55

GAAATTGTGTTGACGCAGTCTCCATCCTCCCTGTCTGCATCTGTTGGAGACAGAGTCAC
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GGAAAGCCCCTAAGAGATGGATCTATGACACATCCAACTGGCTTCTGGGGTCCCATCA
AGGTTCAAGTGGCAGTGGATCTGGGACAGATTACACTCTCACCATCAGCAGTCTGCAACC
TGAAGATTTTGCAACTTATTACTGCCAGCAGTGGAGTAGTAACCACTCACGTTTCGGCG
GAGGGACCAAAGTGGATATCAAA

SEQ.I.D.NO:56

GAGGTCCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGGCCTCAGTGAAGGT
TTCCTGCAAGGCATCTGGATACATATTCACCGACTACAACATGGACTGGGTGCGACAGG

CCCCTGGACAAAACTTGAGTGGATTGGAGATATTAATCCTAATAATGGTGGTACTATC
 GACAACCAGAAGTTCAAGGACAGAGCCACCTTGACCGTAGACAAGTCCACGAGCACAGT
 CTACATGGAGCTGAGCAGCCTGAGATCTGAGGACACGGCCGTGTATTACTGTGCGAGAG
 GGATTTATTACTACGGTAGTCACTACTTTGACTATTGGGGCCAGGGAACTAGTCACA
 GTCTCCTCAGCCTCCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCcTCctCCAAGAG
 CACCTCTGGGGGCACAGCGGCCCTGGGCTGCCTGGTCAAGGACTACTTCCCCGAACCGG
 TGACGGTGTCTGTGGAACCTCAGGCGCCCTGACCAGCGGCGTGCACACCTTCCCGGCTGTC
 CTACAGTCCCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTT
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 CCA tCGAGAAAACC aTCTCCAAGCCAAAGGGCAGCCCCGAGAACCACAGGTGTACACC
 CTGCCCCCaTCCCGGGATGAGCTGACCAAGaACCAGGTGAGCCTGACCTGCCTGGTCAA
 AGGCTTCTATCCCAGCGACATCGCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACA
 ACTACAAGACCACGCCTCCCGTGCTGGACTCCGACGGCTCCTTCTTCTCTACAGCAAG
 CTCACCGTGGACAAGAGCAGGTGGCAGCAGGGGAACGTcTTCTCATGCTCCGTGATGCA
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SEQ.I.D.NO:57

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 AGGTTTCAAGTGGCAGTGGATCTGGGACAGATTACACTCTCACCATCAGCAGTCTGCAACC
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 GAGGGACCAAAGGATATCAAACGTACGGTGGCTGCACCATCTGTCTTCTATCTTCCCG
 CCATCTGATGAGCAGTTGAAATCTGGAACCTGCCTCTGTTGTGTGCCTGCTGAATAACTT
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 CCCAGGAGAGTGTACAGAGCAGGACAGCAAGGACAGCACCTACAGCCTCAGCAGCACC
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 TCAGGGCCTGAGCTCGCCCGTCACAAAGAGCTTCAACAGGGGAGAGTGT

SEQ.I.D.NO:61

QVQLVESGGGVVQPGRLRLS CAASGFSLTNYGVHWVRQAPGKGLEWVAVIWRG
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 SGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDK
 KVEPKSCDKHTHTCPPCPAPELAGAPSVFLFPPKPKDTLMISRTPEVTCVVVDVS
 HEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKC
 KVS NKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPS
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 EALHNHYTQKSLSLSPGK

SEQ.I.D.NO:62

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTG
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GGAAGCACAGACTACAATGCAGCTTTCATGTCCCGATTACCATCTCCAAGGAC
AATTCCAAGAACACGCTGTATCTGCAATGAACAGCCTGAGAGCCGAGGACACG
GCTGTGTATTACTGTGCGAAAAGTCCGAATAGTAACTTTTACTGGTATTTTCGAT
GTCTGGGGCCGTGGCACACTAGTCACAGTCTCCTCAGCCTCCACCAAGGGCCCA
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TCAGGCGCCCTGACCAGCGGCGTGCACACCTTCCCGGCTGTCCTACAGTCTCTCA
GGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGGCACC
CAGACCTACATCTGCAACGTGAATCACAAGCCCAGCAACACCAAGGTGGACAAG
AAAGTTGAGCCCAAATCTTGTGACAAAACCTCACACATGCCACCGTGCCAGCA
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CACGAAGACCCCTGAGGTCAAGTTCAACTGGTACGTGGACGGCGTGGAGGTGCAT
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AGCGTCCTCACCGTCCTGCACCAGGACTGGCTGAATGGCAAGGAGTACAAGTGC
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AAAGGGCAGCCCCGAGAACCACAGGTGTACACCTGCCCCCATCCCGGGATGAG
CTGACCAAGAACCAGGTGAGCCTGACCTGCCTGGTCAAAGGCTTCTATCCCAGC
GACATCGCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACAACCTACAAGACC
ACGCCTCCCGTGCTGGACTCCGACGGCTCCTTCTTCCTCTACAGCAAGCTCACC
GTGGACAAGAGCAGGTGGCAGCAGGGGAACGTCTTCTCATGCTCCGTGATGCAT
GAGGCTCTGCACAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGGTAAA